

Use Attainability Analysis

for

WBID 2403 Galena Hollow

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources  
Water Protection Program

Date Received: July 25, 2005


**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet A - Water Body Identification**

SEP 29 2004 7:31  
WATER PROTECTION PROGRAM

|  |
|--|
| Water Body Name (from USGS 7.5' quad): Galena Hollow                             |
| 8-digit HUC: 11010002  |
| Missouri WBID #: 2403  |
| County: Barry  |
| Upstream Legal Description: 20,23N26W  |
| Downstream Legal Description: 10,23N,26W   |
| Upstream Coordinates: 432320E 4061980N   |
| Downstream Coordinates: 434895E 4063180N   |
| Discharger Facility Name(s):   |
| Discharger Permit Number(s):   |
| Number of Sites Evaluated: 3   |
| Name of Surveyor and Telephone Number: Jeff Woodward Gene Campbell (417)888-4029 |
| Organization: DNR SWCP   |
| Position: Soil Scientist III   |

**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

Signed:   
6-23-05

Date:

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

|   |  |                   |
|---|--|-------------------|
| Missouri WBID #: 2403-01                | Site Location Description: CR 2155 Creek Crossing SE SE 17 |                   |
| Site GPS Coordinates: 432320E 4061980N  |  |                   |
| Date & Time: 6-22-05 10:40AM            | Facility Name:   |                   |
| Personnel: Jeff Woodward Gene Campbell  | Permit Number:   |                   |
| Current Weather Conditions: Hot & Sunny | Weather Conditions for Past 7 days: Hot & Sunny            |                   |
| Photo Ids: Upstream: wbu2403-01         | Downstream: wbd2403-01                                     | Other: wbe2403-01 |

#### Uses Observed\*:

|  |                                      |                                       |   |                                       |
|--|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming  | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing  | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting   | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.) |                                      |                                       |   |                                       |
| <br><br><br><br><br>   |                                      |                                       |   |                                       |

#### Surrounding Conditions\*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |   |  |   |
|--|--------------------------------------|---|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests       | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input type="checkbox"/> Steep slopes           | <input type="checkbox"/> Other:        |   |

#### Evidence of Human Use\*:

|                                      |  |  |   |  |
|--------------------------------------|--|--|---|--|
| <input type="checkbox"/> Roads       | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input type="checkbox"/> Other:      |  |  |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two – WBID #2403-01:

### Stream Morphology:

#### Upstream View Physical Dimensions:

|  |                |   |                                     |                    |
|--|----------------|---|-------------------------------------|--------------------|
| <input checked="" type="checkbox"/> Riffle | Width (ft): 20 | Length (ft): 75   | Avg. Depth (ft): .5                 | Max. Depth (ft): 1 |
| <input type="checkbox"/> Run               | Width (ft):    | Length (ft):  | Avg. Depth (ft):                    | Max. Depth (ft):   |
| <input type="checkbox"/> Pool              | Width (ft):    | Length (ft):  | Avg. Depth (ft):                    | Max. Depth (ft):   |
| <input checked="" type="checkbox"/> Flow   | Present?       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): 2 |                    |

#### Downstream View Physical Dimensions:

|  |                |   |                                     |                    |
|--|----------------|---|-------------------------------------|--------------------|
| <input checked="" type="checkbox"/> Riffle | Width (ft): 15 | Length (ft): 50   | Avg. Depth (ft): .5                 | Max. Depth (ft): 1 |
| <input type="checkbox"/> Run               | Width (ft):    | Length (ft):  | Avg. Depth (ft):                    | Max. Depth (ft):   |
| <input type="checkbox"/> Pool              | Width (ft):    | Length (ft):  | Avg. Depth (ft):                    | Max. Depth (ft):   |
| <input checked="" type="checkbox"/> Flow   | Present?       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): 2 |                    |

**Substrate\*:** (These values should add up to 100%.)

|           |            |        |        |            |           |
|-----------|------------|--------|--------|------------|-----------|
| 5% Cobble | 95% Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|-----------|------------|--------|--------|------------|-----------|

**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

|                                |
|--------------------------------|
| Water cress and algae on rocks |
|--------------------------------|

**Water Characteristics\*:** (Mark all that apply.)

|                  |   |                                 |   |  |                                 |
|------------------|---|---------------------------------|---|--|---------------------------------|
| Odor:            | <input type="checkbox"/> Sewage           | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical       | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color:           | <input checked="" type="checkbox"/> Clear | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray           | <input type="checkbox"/> Milky           | <input type="checkbox"/> Other: |
| Bottom Deposit:  | <input type="checkbox"/> Sludge           | <input type="checkbox"/> Solids | <input type="checkbox"/> Fine sediments | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil              | <input type="checkbox"/> Scum   | <input type="checkbox"/> Foam           | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

Fish in pool upstream

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: [Signature] Date: 6-22-05  
 Organization: MD DNR - SWCP Position: Soil Scientist III

WBID 2403 – Downstream #1



WBID 2403 – Upstream #1



## Field Data Sheets for Recreational Use Stream Surveys

### **Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

|   |  |                   |
|---|--|-------------------|
| Missouri WBID #: 2403-02                | Site Location Description: CR 2155 Creek Crossing NE NE 16 |                   |
| Site GPS Coordinates: 433755E 4062795N  |  |                   |
| Date & Time: 6-22-05 10:50AM            | Facility Name:   |                   |
| Personnel: Jeff Woodward Gene Campbell  | Permit Number:   |                   |
| Current Weather Conditions: Hot & Sunny | Weather Conditions for Past 7 days: Hot & Sunny            |                   |
| Photo Ids: Upstream: wbu2403-02         | Downstream: wbd2403-02                                     | Other: wbe2403-02 |

#### **Uses Observed\*:**

|  |                                      |                                       |   |                                       |
|--|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming  | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing  | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting   | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.) |                                      |                                       |   |                                       |
|  |                                      |                                       |   |                                       |

#### **Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |   |   |  |   |
|--|---|---|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds      | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks      | <input type="checkbox"/> National forests       | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input checked="" type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes           | <input type="checkbox"/> Other:        |   |

#### **Evidence of Human Use\*:**

|                                      |  |  |   |  |
|--------------------------------------|--|--|---|--|
| <input type="checkbox"/> Roads       | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input type="checkbox"/> Other:      |  |  |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two – WBID #2403-02:

### Stream Morphology:

#### Upstream View Physical Dimensions:

|  |  |                                   |                  |                  |
|--|--|-----------------------------------|------------------|------------------|
| <input type="checkbox"/> Riffle          | Width (ft):  | Length (ft):                      | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Run             | Width (ft):  | Length (ft):                      | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Pool            | Width (ft):  | Length (ft):                      | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                  |                  |

#### Downstream View Physical Dimensions:

|  |  |                                   |                  |                  |
|--|--|-----------------------------------|------------------|------------------|
| <input type="checkbox"/> Riffle          | Width (ft):  | Length (ft):                      | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Run             | Width (ft):  | Length (ft):                      | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Pool            | Width (ft):  | Length (ft):                      | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                  |                  |

Substrate\*: (These values should add up to 100%.)

|           |            |        |        |            |            |
|-----------|------------|--------|--------|------------|------------|
| 5% Cobble | 90% Gravel | % Sand | % Silt | % Mud/Clay | 5% Bedrock |
|-----------|------------|--------|--------|------------|------------|

Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

None

Water Characteristics\*: (Mark all that apply.)

|                  |                                 |                                 |   |  |  |
|------------------|---------------------------------|---------------------------------|---|--|--|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical       | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other:                |
| Color:           | <input type="checkbox"/> Clear  | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray           | <input type="checkbox"/> Milky           | <input checked="" type="checkbox"/> Other: dry |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input type="checkbox"/> Fine sediments | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other:                |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input type="checkbox"/> Scum   | <input type="checkbox"/> Foam           | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other:                |

Comments: Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: [Signature] Date: 6-22-05

Organization: MO DNR - SWCP Position: Soil Scientist III



WBID 2403 – Downstream #2



WBID 2403 – Upstream #2





## Field Data Sheets for Recreational Use Stream Surveys

### **Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

|   |  |                   |
|---|--|-------------------|
| Missouri WBID #: 2403-03                | Site Location Description: CR 2155 Creek Crossing SW SW 10 |                   |
| Site GPS Coordinates: 434895E 4063180N  |  |                   |
| Date & Time: 6-22-05 11:00AM            | Facility Name:   |                   |
| Personnel: Jeff Woodward Gene Campbell  | Permit Number:   |                   |
| Current Weather Conditions: Hot & Sunny | Weather Conditions for Past 7 days: Hot & Sunny            |                   |
| Photo Ids: Upstream: wbu2403-03         | Downstream: wbd2403-03                                     | Other: wbe2403-03 |

#### **Uses Observed\*:**

|  |                                      |                                       |   |                                       |
|--|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming  | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing  | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting   | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.) |                                      |                                       |   |                                       |
|  |                                      |                                       |   |                                       |

#### **Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |   |   |  |   |
|--|---|---|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds      | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks      | <input type="checkbox"/> National forests       | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input checked="" type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes           | <input type="checkbox"/> Other:        |   |

#### **Evidence of Human Use\*:**

|                                      |  |  |   |  |
|--------------------------------------|--|--|---|--|
| <input type="checkbox"/> Roads       | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input type="checkbox"/> Other:      |  |  |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two – WBID #2403-03:

### Stream Morphology:

#### Upstream View Physical Dimensions:

|  |                |   |                                   |                    |
|--|----------------|---|-----------------------------------|--------------------|
| <input type="checkbox"/> Riffle          | Width (ft):    | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):   |
| <input checked="" type="checkbox"/> Run  | Width (ft): 18 | Length (ft): 60   | Avg. Depth (ft): 1                | Max. Depth (ft): 1 |
| <input type="checkbox"/> Pool            | Width (ft):    | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):   |
| <input checked="" type="checkbox"/> Flow | Present?       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                    |

#### Downstream View Physical Dimensions:

|  |                |   |                                   |                    |
|--|----------------|---|-----------------------------------|--------------------|
| <input checked="" type="checkbox"/> Riffle | Width (ft): 25 | Length (ft): 40   | Avg. Depth (ft): .5               | Max. Depth (ft): 1 |
| <input type="checkbox"/> Run               | Width (ft):    | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):   |
| <input type="checkbox"/> Pool              | Width (ft):    | Length (ft):  | Avg. Depth (ft):                  | Max. Depth (ft):   |
| <input checked="" type="checkbox"/> Flow   | Present?       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                    |

**Substrate\*:** (These values should add up to 100%.)

|           |            |        |        |            |           |
|-----------|------------|--------|--------|------------|-----------|
| 5% Cobble | 95% Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|-----------|------------|--------|--------|------------|-----------|

**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

|                              |
|------------------------------|
| Algae on rocks & Water cress |
|------------------------------|

**Water Characteristics\*:** (Mark all that apply.)

|                  |   |                                 |   |  |                                 |
|------------------|---|---------------------------------|---|--|---------------------------------|
| Odor:            | <input type="checkbox"/> Sewage           | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical       | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color:           | <input checked="" type="checkbox"/> Clear | <input type="checkbox"/> Green  | <input type="checkbox"/> Gray           | <input type="checkbox"/> Milky           | <input type="checkbox"/> Other: |
| Bottom Deposit:  | <input type="checkbox"/> Sludge           | <input type="checkbox"/> Solids | <input type="checkbox"/> Fine sediments | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil              | <input type="checkbox"/> Scum   | <input type="checkbox"/> Foam           | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.  
Fish present. Spring present below riffle

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: J. Ann Date: 6-22-05  
Organization: MO DNR-SWCP Position: Soil Scientist III

WBID 2403 – Downstream #3



WBID 2403 – Upstream #3



Galena Hollow (WB2403)  
Barry County, Missouri

